

Please type a plus sign (+) inside this box →

+

PTO/SB/08A (08-00)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for Form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/577,982
				Filing Date	May 2, 2006
				First Named Inventor	Makoto KOIZUMI
				Group Art Unit	10577982 - GAU: 1637
				Examiner Name	Mark Staples
Sheet	1	of	3	Attorney Docket Number	06189/HG

## U.S. PATENT DOCUMENTS

Exam. Inits <sup>1</sup>	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion

## FOREIGN PATENT DOCUMENTS

Exam. Inits <sup>1</sup>	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
/MS/		JP	3420984	B2	SANKYO CO., LTD.	4-18-2003		*
/MS/		JP	2000-297097	A	SANKYO CO., LTD.	10-24-2000		**
/MS/		JP	10-304889	A	IMANISHI	11-17-1998		**
Only English portions and English Abstracts considered								
Examiner Signature		/Mark Staples/			Date Considered	02/12/2008		

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

DATE MAILED: August 3, 2006

\*PARTIAL ENGLISH-LANGUAGE TRANSLATION ENCLOSED

\*\*ENGLISH-LANGUAGE ABSTRACT ENCLOSED

Please type a plus sign (+) inside this box →



PTO/SB/08B (08-00)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for Form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/577,982
				Filing Date	May 2, 2006
				First Named Inventor	Makoto KOIZUMI
				Group Art Unit	10577982 - GAU: 1637
				Examiner Name	Mark Staples
Sheet	2	of	3	Attorney Docket Number	06189/HG
<b>OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of author (in CAPITAL LETTERS), title of article, title of item, date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
/MS/		Leonid KRUGLYAK, "Prospects for whole-genome linkage disequilibrium mapping of common disease genes," <u>Nature Genetics</u> , vol. 22, June 1999, pp. 139-144.			
/MS/		Henry A. ERLICH et al., "Recent Advances in the Polymerase Chain Reaction," <u>Science</u> , June 21, 1999, Vol. 252, pp. 1643-1651.			
/MS/		Koji MORITA et al., "Synthesis and Properties of 2'-O,4'-C-Ethylene-Bridged Nucleic Acids (ENA) as Effective Antisense Oligonucleotides," <u>Bioorganic &amp; Medicinal Chemistry</u> , (2003), Vol. 11, pp. 2211-2226.			
/MS/		Koji MORITA et al., "2'-O,4'-C-Ethylene-Bridged Nucleic Acids (ENA): Highly Nuclease-Resistant and thermodynamically Stable Oligonucleotides for Antisense Drug," <u>Bioorganic &amp; Medicinal Chemistry Letters</u> , (2002), Vol. 12, pp. 73-76.			
/MS/		Kenneth J. LIVAK, "Allelic discrimination using fluorogenic probes and the 5' nuclease assay," <u>Genetic Analysis: Biomolecular Engineering</u> , (1999), Vol. 14, pp. 143-149.			
/MS/		Timothy MORRIS et al., "Rapid Reverse Transcription-PCR Detection of Hepatitis C Virus RNA in Serum by Using the TaqMan Fluorogenic Detection System," <u>Journal of Clinical Microbiology</u> , Dec. 1996, Vol. 34, No. 12, pp. 2933-2936.			
/MS/		David LATORRA et al., "Enhanced Allele-specific PCR Discrimination in SNP Genotyping Using 3' Locked Nucleic Acid (LNA) Primers," <u>Human Mutations</u> , (2003), 22:79-85.			
/MS/		Peter MOURITZEN et al., "Single nucleotide polymorphism genotyping using locked nucleic acid (LNA™)," <u>Expert Rev. Mole. Diagn.</u> , (2003), 3, PP. 27-38.			
/MS/		David LATORRA et al., "Design considerations and effects of LNA in PCR primers," <u>Molecular and Cellular Probes</u> , (2003), 17, pp. 253-259.			
Examiner Signature		/Mark Staples/		Date Considered	02/12/2008

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

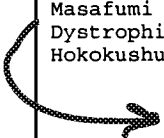
<sup>1</sup> Unique citation designation number. <sup>2</sup> Place a check here if English translation is attached.

DATE MAILED: August 3, 2006

Please type a plus sign (+) inside this box →



U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for Form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number		10/577,982	
				Filing Date		May 2, 2006	
				First Named Inventor		Makoto KOIZUMI	
				Group Art Unit		10577982 - GAU: 1637	
				Examiner Name		Mark Staples	
Sheet	3	of	3	Attorney Docket Number		06189/HG	
<b>OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS</b>							
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of author (in CAPITAL LETTERS), title of article, title of item, date, page(s), volume-issue number(s), publisher, city and/or country where published					T <sup>2</sup>
/MS/		Björn TEWS et al., "Application of the C4'-Alkylated Deoxyribose Primer System (CAPS) in Allele-Specific Real-Time PCR for Increased Selectivity in Discrimination of Single Nucleotide Sequence Variants," <u>Biol. Chem.</u> , (2003) Vol. 384, pp. 1533-1541.					
/MS/		Makoto KOIZUMI et al., "Improvement of single nucleotide polymorphism genotyping by allele-specific PCR using primers modified with an ENA residue," <u>Analytical Biochemistry</u> , (2005), 340, pp. 287-294.					
/MS/		Makoto KOIZUMI et al., "SNP genotyping by allele-specific PCR using ENA primers," <u>Nucleic Acid Symposium Ser.</u> , (2005), No. 49, pp. 47-48.					
/MS/		Makoto KOIZUMI et al., "Triplex formation with 2'-O,4'-C-ethylene-bridged nucleic acids (ENA) having C3'-endo conformation at physiological pH," <u>Nucleic Acids Research</u> , (2003), Vol. 13, No. 12, pp. 3267-3273.					
/MS/		Koji MORITA et al., "2'-O,4'-C-Ethylene-Bridged Nucleic Acids (ENA): Highly Nuclease-Resistant and Thermodynamically Stable Oligonucleotides for Antisense Drug," <u>Bioorganic &amp; Medicinal Chemistry Letters</u> , (2002) 12, pp. 73-76.					
/MS/		Masafumi MATSUO et al., "Study of Ability of Antisense ENA to Induce Exon Skipping of Dystrophin Gene," Kosei Rodosho Seishin Shinkei Shikkan Kenkyu Itakuhi ni yoru Kenkyu Hokokushu, Heisei 14 Nendo, July 2003, p. 590.					*
		 Only English Translation considered					
Examiner Signature		/Mark Staples/			Date Considered		02/12/2008

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Place a check here if English translation is attached.

DATE MAILED: August 3, 2006

\*ENGLISH-LANGUAGE TRANSLATION ENCLOSED